



## MATHS

# NCERT - NCERT Maths(TELUGU)

# **SUMMATIVE ASSESMENT -I**



1. Simplify (-24) imes (-8) imes (-10)



**4.** Find the values of x and y from the figure.





5. The length of a flag is 90 cm breadth is 60cm

then find the ratio of length and breadth.

**6.** Raju and rani had climbed the  $\frac{11^{th}}{12}$  part of steps of a building then what is the remaining part of the steps to be climbed.

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## 7. Prove that $riangle AOB \cong riangle COD$ by using SAS

congruency rule.

**8.** The marked price of a book is Rs. 180. In a book fare 15% of discount allowed. Then what is the selling price of that book in book fare?



9. Represent 6-2,-7-(-5) on the number line

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10. From the adjacent figure find the area of rectangle ABCD and area of  $\triangle$  ABC and mention



## relation

## them.



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$$-14 imes (6 + (\, - \, 9)) = (\, - \, 14 imes \, 6) + (\, - \, 14 imes \, - \, 9)$$

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12. Sudha and Ramya are trying to construct  $\triangle$ BAG with measurements BA=5cm,  $\angle B = 100^{\circ}$ ,  $\angle A = 95^{\circ}$ . This can be success to construct it or not. Give reasons.

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## 13. $100^3 imes 10^6 = 10^9$ is this true or false prove it.

**14.** Find T if P = Rs 6500 
$$R=2rac{1}{3}~\%\,$$
 and I = Rs 455



15. The sum of three expressions is  $9a^2 - 11a + 8$ . Among them  $3a^2 + 5a + 2$  and  $2a^2 + 6a + 3$  are two expressions. find the third expression.



17. The floor at a school consists of 100 tiles which are rhombus shaped to practice yoga. The diagonals of each rhombus are 150 cm and 175 cm. Find the total cost of polishing the floor if cost per  $m^2$  is Rs12.

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18. Find the perimeter of the triangle whose sides

are 3a-2b, 4b+5a, and

b-2a.



20. Draw a double bar graph for the data as per

the details of ward wise polled votes in a village.

Gender	Ward - 1	Ward - 2	Ward - 3	Ward - 4	• Ward - 5	Ward - 6
Men	780	.340	610	250	534	808
Women	660	375	590	265	575	850

21. Write the following integers in descending

order. 10,-6,20,-84,-2



24. Sum of three consectuve integers is 18. Find

the integers.



**25.** The equal sides of an isosceles triangle 3.5cm each and the other side is 2.5cm. What is the perimeter of the triangle?



```
26. Verify: 20 	imes [8 + (-2)] = [20 	imes (-2)]
```



28. Solve: I am a number, tell my identity, take me

two times over and add a thirty six and to reach a

century you still need four.



## **29.** In $\triangle ABC, \angle A = 3 \angle B$ and $\angle C = 2 \angle B$

.Find the three angles of  $\triangle$  ABC.



## **30.** Find the measures of x,y and z in the figure.



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**31.** Simplify: 
$$2\frac{2}{3} + 3\frac{1}{4}$$

**32.** Simplify: 
$$1rac{4}{9}+rac{3}{7}$$

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33. Simplify: 
$$rac{5}{6} imes 4rac{2}{7}$$

**34.** Simplify: 
$$3\frac{2}{5} + \frac{5}{9}$$

**35.** Total number of boys and girls in a class is 52.

If the number of girls is 10 more than that of boys,

find the number of boys.



36. Show that the sum of the exterior angles of

riangle ABC is  $360^\circ$ 



**37.** In a class test containing 10 questions, 3 marks are awarded for every correct answer and (-1) mark is for every incorrect answer and 0 for the question not attempted. Kiran gets 5 correct and 5 incorrect

answer. What is his score.



**38.** In a class test containing 10 questions, 3 marks are awarded for every correct answer and (-1) mark is for every incorrect answer and 0 for the

question not attempted. Ramya gets 7 correct and

3 incorrect answers. What is her score?



**41.** Represent 4 imes (-3) = -12 on the

numberline.















47. Sum of two negative integers is always-

A. Positive

**B.** Negative

C. 1

D. 0

**Answer:** 

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**48.** Which of the following set of numbers in descending order?

A. 2, -2, 1, -1

B. 1, 0, -1, -2

C. -3, -2, -1, 0

D. 0, 1, 2, 3

#### **Answer:**



# **49.** Which of the following will give answer with negative sign?

A. - 48 + 79

B. -18 + 8

 $\mathsf{C.0}+5$ 

D. 
$$48 + (-39)$$

#### Answer:

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50. What will be additive inverse of 7?

A.-7

B. -5

C. -6

D. -4

#### **Answer:**



Answer:

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**52.** The value of 
$$4\frac{1}{3}$$
 of  $\frac{8}{3}$  is

A. 
$$\frac{104}{9}$$
  
B.  $\frac{8}{13}$   
C.  $\frac{9}{4}$   
D.  $\frac{21}{16}$ 

### **Answer:**

**53.** The value of 1.3 imes 3.1 is

A. 403

B. 0.403

C. 0.0403

D. 4.03

**Answer:** 



54. Which is a solution of the equation 3x - 14 = 4?A. X=2 B. x=3 C. x=6 D. x=4 **Answer:** 



55. The solution of the equation 2p-1=23 is

p =

A. 12

B. 11

C. 10

D. None of these

#### Answer:



56. The solution of the equation 4(m+3) =18 is m=

A. 
$$\frac{6}{4}$$
  
B.  $\frac{30}{4}$ 

C. 3

D. None of these

#### **Answer:**



57. In  $rec an g \leq ABCD$  if  $BC \mid \ \mid AD$  , and  $\overline{BD}$ 

is transversal, а  $igtriangle ADB = 100^\circ\,-\,4x^\circ\,, igtriangle CBA = 180^\circ\,-\,5x^\circ$ ,then  $x^\circ$  =\_\_\_\_ A.  $90^{\circ}$ B.  $55^{\circ}$ C.  $125^{\circ}$ **D**. 180° **Answer:** 

**58.** Find the angle, which is equal to its complement is :

A.  $30^{\circ}$ 

B.  $25^{\circ}$ 

C.  $35^{\circ}$ 

D.  $45^{\,\circ}$ 

Answer:

59. Simplify combining like terms: (ab - 4a) + (4b -

ab) + (4a - 4b)



60. Which is the largest side of a right triangle?

A. Perpendicular

B. Base

C. Hypotenuse

D. None of these


## **61.** 72% of 25 students are good in Hindi, how

many are not good in Hindi?

A. 16

B. 14

C. 18

D. 7





## 62. How much will be the cost if 10% discount is

given on the marked price Rs.100?

A. 90

B. 110

C. 95

D. 85



**63.** A trader marks his goods at 40% above the cost price and allows a discount of 25% what is his gain percentage?

A. 5

B. 10

C. 20

D. None of these

#### **Answer:**

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**64.** At what rate percentage per annum simple Interest will a sum triple itself in 16 years?

A. 0.12%

B. 12.5%

C. 0.15%

D. 
$$6rac{1}{4}~\%$$



**65.** Simplify: 
$$-\frac{4}{5}\frac{3}{7}\frac{15}{16}\left(-\frac{14}{9}\right)$$

A. 1

B. 0

C. 2

 $\mathsf{D}.\,\frac{1}{2}$ 





A. 1

B. 0

C. Any number

D. None of these

#### **Answer:**

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**67.** Find the value of 
$$(-6) \div rac{2}{3}$$

A. -9

B. 9

C. -4

D. None of these

#### Answer:

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68. Write the next rational number in pattern:

 $-rac{3}{5},\ -rac{6}{10},\ -rac{9}{15},\ -rac{12}{20}$ 

A. 
$$\frac{12}{25}$$
  
B.  $\frac{15}{25}$   
C.  $-\frac{15}{25}$ 

## D. None of these

#### **Answer:**

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**69.** What is the statement for the expression 3mn + 5?

A. 5 more than  $rac{1}{3}$  of product of m and n

B.5 more than 3 times the product of the number m and n

C. Number 5 added to 3 times the product of

m and n

D. Number 5 added to product of number m

and n

#### Answer:



### 70. Subtract a-b from a+b the result is-

A. 2a + 2b

B. 2a

C. 2b

D. 2a-2b

#### Answer:

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# **71.** The value of expression x + 7 + 4(x - 5) for x=2

A. -3

B. 31

C. 12

D. 37

#### **Answer:**



72. Simplify and write in exponential form of  $(-4)^{100} \times (-4)^{20}$ A.  $(-4)^{120}$ B.  $(-4)^{80}$ C.  $(-4)^{200}$ 

D. None of these





**73.** The approximate distance of Moon from the earth is 384,467,000 m and in exponential form this distance can be written as......

A.  $3.84467 imes10^8$ 

B. 384, 468 imes 10  $^{-8}$ m

C. 384,  $467 imes 10^{-9}$ m

D. 3.84467  $\times$   $10^{-13} \mathrm{m}$ 

#### Answer:



**74.** The value of 
$$\frac{7^2}{7^3}$$
 is given by-

A. 
$$\frac{1}{7}$$

B. 7

C. 
$$\frac{1}{14}$$

D. -7

#### Answer:



75. The value of 
$$2^0 imes 3^0 imes 4^0$$
 is -

A. 1

B. 0

C. 24

D. None of these



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## 76. 2 subtracted from 7 gives-

A. -9

B. 5

C. -5

D. 9

Answer:

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77. What will be the additive inverse of -1?

A. -2

B. -1

C. 0

D. 1



78. In addition, and subtraction of two integers,

the sign of the answer depends upon-

A. Smaller number

B. Their difference

C. Their sum

D. Greater numerical value

Answer:

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**79.** Which property is reflected of the following  $7 \times 5 = 5 \times 7$ ?

A. Closure

B. Commutative

C. Associative

D. Distributive

Answer:

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A. 
$$35\frac{1}{5}$$
  
B.  $\frac{1}{3}$   
C.  $3 imes \frac{5}{26}$ 

D. None of these

#### **Answer:**



**81.** Which of the following is the least form of  $\frac{18}{36}$ 

A. 
$$\frac{3}{6}$$
  
B.  $\frac{9}{18}$   
C.  $\frac{1}{2}$   
D.  $\frac{2}{1}$ 

#### **Answer:**



## 82. The solution of the equation p+4=15 is p=

A. 12

B. 13

C. 11

D. 14

#### **Answer:**



83. If two lines intersect at a point, then the

vertically opposite angles are always......

A. Equal

B. Supplementary

C. Complementary

## D. Unequal

#### Answer:

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84. How many medians a triangle will have?

A. 2

B. 1

C. 3

D. 0



85. Which is the longest side in the triangle PQR

right angled at P?

A. PQ

B. QR

C. PR

D. None of these



## **86.** In a $riangle ABC \angle A = 35^\circ$ and $\angle B = 65^\circ$ , then

## the measure of $\angle C$ is-

A.  $50^{\,\circ}$ 

B.  $80^{\circ}$ 

C.  $30^{\circ}$ 

D.  $60^{\,\circ}$ 



87. Find the ratio of 3km to 300 m-

A. 10 : 1

B. 0.04861111111111

C. 0.045138888888888

D. None of these



88. Find the ratio of speed of a cycle 15 km per

hour to the speed of scooter 30km per hour-

A. 2:1

B. 0.04305555555556

C. 0.17013888888889

D. None of these

Answer:

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89. Cost of an item is Ra. 50. It was sold with a

profit of 12% find the selling price.

A. Rs. 56

B. Rs.60

C. Rs.70

D. None of these



**90.** ..... is the identify for the addition of rational number-

A. 1

B. 0

C. -1

D. 
$$\frac{1}{2}$$



**91.** The reciprocal of a positive rational number.

A. Negative

**B.** Positive

C. Zero

D. None of these



**92.** Find x such that  $-rac{3}{8}$  and  $rac{x}{-24}$  are equivalent

## rational numbers.

A. 3

B. 8

C. 9

D. None of these



93. The points P, Q, R, S, T, U and V on the number line such that, US=SV=VR, and WT=TP=PQ. The rational number represented by Ρ. v R WΤ Q U O.  $\mathbf{p}$ A.  $\frac{3}{5}$ B.  $\frac{2}{5}$ C.  $\frac{4}{5}$ D. None of these



A. 
$$\frac{3}{5}$$
  
B.  $\frac{2}{5}$   
C.  $\frac{4}{5}$ 

D. None of these



line such that, US=SV=VR, and WT=TP=PQ. The



A. 
$$\frac{3}{5}$$
  
B.  $\frac{2}{5}$   
C.  $\frac{4}{5}$ 

D. None of these





A. 
$$-\frac{3}{5}$$
  
B.  $-\frac{2}{5}$   
C.  $-\frac{4}{5}$ 

## D. None of these

#### **Answer:**

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97. What is the statement for the expression 2y-9?

A. 2y subtracted from 9

B. Thrice of y minus 9

C. 9 substracted from y and multiplied by 2

D. 9 substracted from 9



## **98.** Vertex opposite to the side RT of $\ riangle RST -$

A. S

B. T

**C.** R

D. None of these


# **99.** In riangle PQR, where M is the Midpoint of

the side QR, then PM is-

A. Median

B. Altitude

C. Bisector

D. Side

## **Answer:**

**100.** Use the sign of >, < or = in the box to make the statements true. (-8)+(-4) ...... (-8)-(4)

A. >

B. <

C. =

D. None



101. Use the sign of > , < or = in the box to make the statements true. (-3) + 7 - (19)......

A. >

B. <

C. =

D. None

Answer:

102. Use the sign of >, < or = in the box to make the statements true. 23 - 41 + 11...... 23 - 41 - 11A. >B. <

C. =

D. None

Answer:

**103.** Use the sign of >, < or = in the box to make the statements true. 39 + (-24) - (15).....36 + (-52) - (-36)

- A. >
- B. <
- C. =
- D. None



**104.** Use the sign of >, < or = in the box to

make the statements true.

-231 + 79 + 51.....-399 + 159 + 81

A. >

B. <

C. =

D. None

Answer:

# 105. how many books were sold in 1989?



# A. 100

B. 200

C. 300

D. 600





# A. 1990

B. 1991

# C. 1993

D. 1989







B. 1991

C. 1993

D. 1992

**Answer:** 

# 108. How many books were sold from 1989 to 1991?



### A. 600

B. 900

C. 400

D. 800



# 109. How many books were sold from 1991 to 1993?



# A. 1300

# B. 1000

# C. 900

D. 800

#### **Answer:**

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110. Which one of the following represents the expansion  $2 \times 10 \times 1 + 0 imes rac{1}{10} + 3 imes rac{1}{100}$ ?

A. 20.03

B. 2.03

C. 200.03

D. 2.034

# Answer:





**112.** Which of the following does not represent pair of integers (a, b) such that  $\frac{a}{b} = 2$ ?

A. (-6, -3)

B. (-2,1)

C. (-10, -5)

D. (8, 4)

**Answer:** 

113. Product of two negative integers is always-

A. Always negative

B. Always positive

C. 0

D. Either positive or negative



**114.** Which one of the following is improper fraction?

A. 
$$\frac{2}{3}$$
  
B.  $\frac{5}{7}$   
C.  $\frac{7}{4}$   
D.  $\frac{1}{2}$ 

### Answer:

**115.** Which of the following is greater?

A. 5

B. 0.5

C. 0.005

D. 0.05

#### **Answer:**



116. The solution of the equation m-7=3 is m=

A. 10

B. 13

C. 12

D. 11

# Answer:



117. The solution of three times a number and 11 is

32. Find the number.

B. 7

C. 8

D. None

Answer:

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118. Thrice a number when increased by 5 gives 44,

find the number.

A. 12

B. 13

C. 15

D. None of these

### **Answer:**

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**119.** Find the angle, which is equal to its complement is :

A.  $30^{\,\circ}$ 

B.  $25^{\circ}$ 

C.  $35^{\circ}$ 

D.  $45^{\,\circ}$ 

### Answer:

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120. Find the supplement of  $105^\circ$ 

A.  $80^{\circ}$ 

B.  $65^{\,\circ}$ 

C.  $75^{\circ}$ 

D.  $100^{\circ}$ 





**121.** The sum of lengths of any two sides of a triangle is ...... the third side of the triangle.

A. 1. greater

B. 2. smaller

C. 3..equal

D. None



122. Which is a solution of the equation 3x - 14 = 4?

A. x-4=2

B. x+4=9

C. x+9=4

D. None of these



**123.** Find the number such that one fifth of it minus

4 gives 3.

A. 45

B.25

C. 35

D. None of these

## **Answer:**

**124.** Where does the number  $3\frac{4}{5}$  lies?

A. Between 4,5

B. Between 3,4

C. Between 3,6

D. Between 3,5



**125.** Which triangle can be constructed with a single

independent measurement-

A. Equilateral triangle

B. Isosceles triangle

C. Scalene triangle

D. Cannot be constructed

## **Answer:**

# **126.** How many $\frac{1}{5}$ parts in 5?

A. 1

B. 5

C. 15

D. 25

### **Answer:**



**127.** If a= 5, b=2, c=3 then  $(a \div b)^c$ =

A. 
$$\frac{2^5}{5^5}$$
  
B.  $\frac{2^3}{5^3}$   
C.  $\frac{5^3}{2^3}$   
D.  $\frac{5^2}{3^2}$ 

# **Answer:**



**128.** Rohan went to a school which is 1 km away from his home. He travelled 0.85 km by bicycle

remaining by walk. Then what is the percentage of

the distance travelled by walk?

A. 0.85

B. 0.15

C. 0.35

D. 0.75



# **129.** Choose the Net of given 3D shape



130. The order of rotational symmetry of a square

is

A. 2

B. 1

C. 3

D. 4



131. The dimensions of a cell phone-

A. 1D

B. 2D

C. 3D

D. None

#### **Answer:**



132. Sum of the complementary angles is-

- A. Obtuse angle
- B. Right angle
- C. Acute angle
- D. Reflex angle

### **Answer:**



# 133. How many times the circumference of a circle

to its diameter?

 $\mathsf{B.}\,2\pi$ 

C.  $3\pi$ 

D.  $4\pi$ 

Answer:

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# 134. The supplementary angle of $70^\circ\,$ is-

A.  $20^{\,\circ}$ 

B.  $110^{\circ}$ 

C.  $290^{\circ}$ 

D.  $70^{\circ}$ 

#### Answer:

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# 135. $(-12) \times (-11) \times 0$ =

A. -12

B. -11

C. 132

D. 0
### **Answer:**



**136.** Which of the following is an equivalent fraction of  $\frac{4}{7}$ ?

A. 
$$\frac{8}{14}$$
  
B.  $\frac{12}{21}$   
C.  $\frac{16}{28}$ 

D. A, B and C



B. 0.2

C. 0.26

D. 12714.26



**138.** If X + 9 = 15 then X =

A. 6 B. 24 C. 135 D.  $\frac{5}{3}$ 

#### Answer:



# 139. In riangle XYZ, $riangle X=30^\circ$ , $riangle Y=45^\circ$ then

$$f\in d \measuredangle Z$$
=

A.  $75^{\,\circ}$ 

B.  $15^{\circ}$ 

C.  $95^{\,\circ}$ 

D.  $105\,^\circ$ 

### **Answer:**



### **140.** The smallest number in the group is:

$$2,\ -2,\, 3,\, 4,\, 0,\ -5$$

B. -5

C. 0

D. 3

**Answer:** 

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### 141. The correct equation form for the figure is-





B. X+26=0

C. X-15=0

D. X+15=11

**Answer:** 

 $\angle PQB = \frac{A + \frac{100^{0}}{P} + \frac{B}{D}}{P} + \frac{B}{D} + \frac{1}{P} + \frac{1}{P} + \frac{B}{D} + \frac{1}{P} +$ 

142. In the figure,  $l \, / \, / m ar{a} AQE = 100^\circ\,$  then,

- A.  $100^{\,\circ}$
- B.  $80^{\circ}$
- C.  $260^{\circ}$
- D.  $0^{\circ}$



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## 143. The side of a square is x metres, and the

perimeter is 28 metres. Then find x.

A. 6 m

B. 6 cm

C. 7 m

D. 7 cm



144. The angle that cannot be formed by an

opened scissors is

A. Acute angle

B. Obtuse angle

C. Right angle

D. Straight angle



145. Which of the following statements represent

parallel lines?

A. Opposite edges of a black- board

B. Adjacent edges of a door

C. 2 rails of a railway track

D. A and C

Answer:

146. In a class of 20 students, 10 students present

on Saturday, then the percentage of the

attendance on Saturday is-

A. 0.3

B. 0.4

C. 0.5

D. 0.6

#### Answer:

**147.** A purse contains Rs. 100 in the denomination of Rs. 10 and Rs. 50 notes. Number of Rs. 10 notes are 4 more than that of Rs. 50 notes. Then the number of Rs. 10, Rs. 50 notes are respectively

A. 4,2

B. 5,2

C. 4,1

D. 5,1

**Answer:** 

**148.** In the given figure, the value of x + y is-



A.  $120^{\,\circ}$ 

- B.  $190^{\circ}$
- C. 110  $^{\circ}$
- D.  $180^{\circ}$



C. 3. C

D. A, B and C

#### Answer:

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### 151. In the figure ABCD, the shaded part



A. 
$$\frac{1}{5}$$
  
B.  $\frac{2}{5}$   
C.  $\frac{3}{5}$   
D.  $\frac{4}{5}$ 

### **Answer:**



# 152. The correct representation for 2+3=5 on a

number

is--



